

http://rapweb.jpl.nasa.gov/planning

The following downtimes are being studied for 2008 - 2010

| SPC-60 is requesting additional time for Commercial Power Installation no earlier than July 8, 2008. They are requesting 2 three day blocks or 3 two day blocks on off shift hours. |
|--|
| SPC-40 is requesting complex downtime for A Station Power Grid. Week 22 DOY 153 2200-0200 scheduled Week 34 DOY 237 2200-0600 proposed Week 38 DOY 265 2200-0400 proposed Week 39 DOY 272 2200-0400 proposed |
| DSS-14 Grouting for week 31 in 2008 for 3 - 5 days. ☐ The grouting has been placed in the schedule and all conflicts have been resolved. |
| DSS-14 Grouting has been proposed for week 35 in 2008 for 3 days. |
| DSS-14 Grouting has been proposed for week 44 in 2008 for 3 days. |
| DSS-55 downtime for Paint Repair beginning in June 2008 has been moved to September weeks 36 - 41. |
| DSS-54 downtime for ACQ Aid Installation is scheduled for October, weeks 42 and 43 of 2008. Due to Cassini critical support, the proposed downtime DOYs would be 287 – 290 and 292 – 294. Will check for TERRA views. Cassini view is 0400-1600 will check on actual time needed. |
| DSS-43 downtime for Life Extension and Depot Level Maintenance starting October 3, 2008 has been moved to start January 5, 2009 and proposed to end April 12, 2009 weeks $2-15$ which add an extra two weeks to the end time. |
| DSS-63 downtime for Life Extension has been shortened to May 4, through August 2, 2009, weeks 19 - 31. |
| DSS-24 downtime for painting has been proposed for April – May of 2009, weeks 14 - 22. A study is being performed. |

The following downtimes are being studied for 2008 - 2010

- □ DSS-34 downtime for Azimuth Track Replacement has been proposed for 2010, local summer. ☐ It is suggested to move to October. November of 2009 weeks 41-47.
- □ DSS-65 downtime for Life Extension Elevation for October. November of 2009 has been proposed for weeks 31 - 41 in 2010.
- □ As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010, local spring, summer or fall after DSS-14 RTS.

 DSS-43 is proposed for August 30 to November 29, 2010 weeks 35-48

 - □ DSS-63 is proposed for February 28 to May 29, 2011 weeks 9 -21.
- □ DSS-15 downtime for Pintle Bearing has been proposed for May 3, through June 27, 2010. weeks 18 - 25.

Downtime request for 2008

the new G86 Substation, Mars Site.

The following proposals for 14 hour complex downtimes are requested by GDSCC.

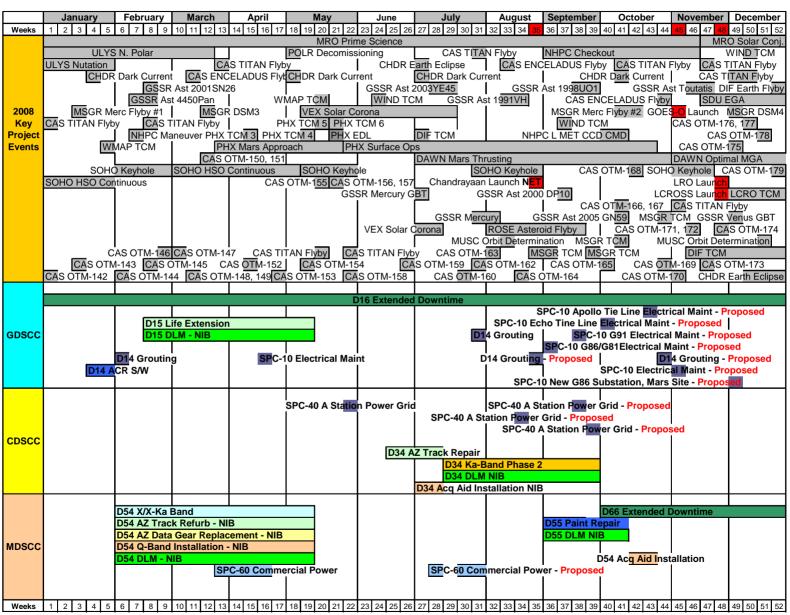
| | Corrective maintenance "G86/G81 Transfer Switch Electrical Maintenance" in May has been changed to NET September 2008. |
|---|--|
| | ☐ This was in the schedule for week 22 DOY 147/0830-2230. This downtime will be scheduled no earlier than week 36 and negotiated in the Mid-Range negotiation meetings. |
| | Preventative maintenance "G91 2400V Switchgear Electrical Maintenance" in June has been changed to NET September 2008. |
| | ☐ This is in the schedule for no earlier than week 38 and will be negotiated in the Mid-Range negotiation meetings. |
| | Preventative maintenance "Echo Tie-Line Electrical Maintenance" in September has been changed to NET October 2008. |
| | ☐ This is in the schedule for no earlier than week 40 and will be negotiated in the Mid-Range negotiation meetings. |
| | Preventative maintenance "Apollo Tie-Line Electrical Maintenance" in October has been changed to NET November 2008. |
| | ☐ This is in the schedule for no earlier than week 43 and will be negotiated in the Mid-Range negotiation meetings. |
| | Preventative maintenance "SPC-10 Electrical Maintenance" in November. This is in the schedule for no earlier than week 45 and will be negotiated in the Mid-Range negotiation |
| | meetings. |
| A | dditional time is being requested |

□ Fourteen 4 hour periods between July 2009 and January 2010 for testing of G86 Substation, Mars Site.

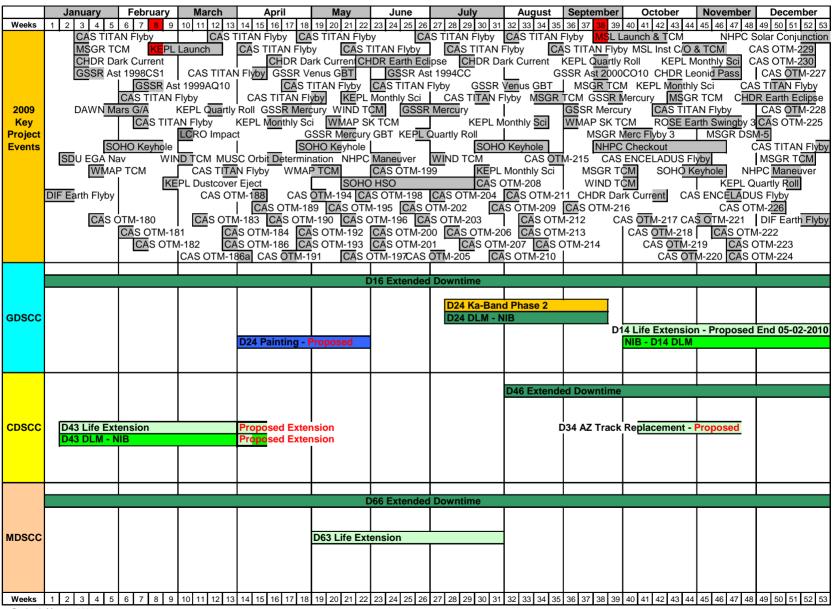
□ Two 8 hour complex downtimes in December 2008 for cutover, final connection and testing of

The following proposals for antenna downtimes are requested.

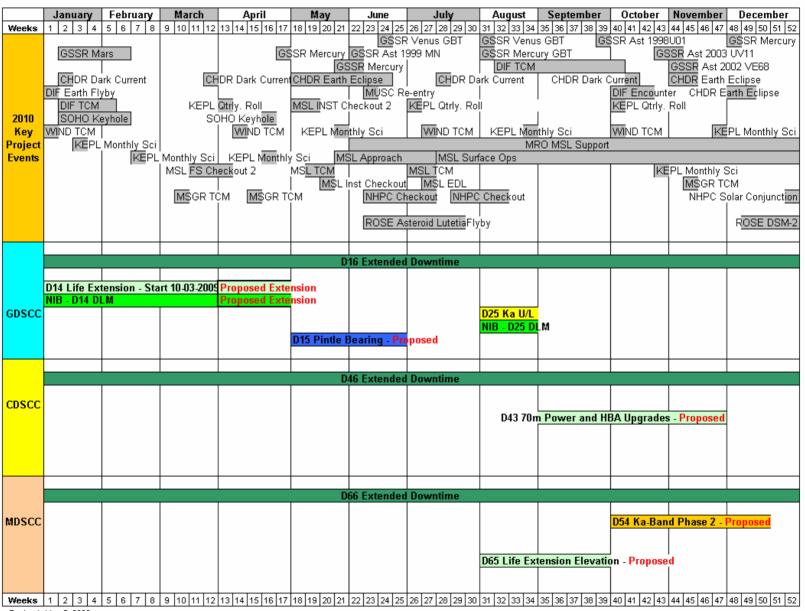
- □ MDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-63, -65, -54 and -55 as follows:
 - □ Servo Testing for DSS-55 is scheduled for DOY 192/0600-1400 week 28
 - □ Servo Testing for DSS-63 is scheduled for DOY 193/0600-1400 week 28
 - □ Servo Testing for DSS-54 is scheduled for DOY 196/0600-1400 week 29
 - □ Servo Testing for DSS-65 is scheduled for DOY 199/0600-1400 week 29
 - □ Servo Testing for DSS-63 is scheduled for DOY 203/0600-1400 week 20 (will be deleted if week 28 is negotiated)
 - Antenna Inspection for DSS-63 is scheduled for DOY 154/0600-1400 week 23
 - Antenna Inspection for DSS-55 is scheduled for DOY 161/0600-1400 week 24
 - Antenna Inspection for DSS-54 is scheduled for DOY 162/0600-1400 week 24
 - □ Antenna Inspection for DSS-65 is scheduled for DOY 163/0600-1400 week 24
- □ HEF Transmitter Manifold Installation at DSS-15, -45 and -65 between July, 2008 and June 2009 not to be scheduled concurrently with DSS-15 being scheduled first.



| 2008 | | | | | | | |
|--------|--|------------------|------------------|-----------------|---------|-----------|---------|
| Site | Description | Start | End | Duration (Days) | Weeks | Start DOY | End DOY |
| DSS 54 | XX-Ka Band Install | 02/04/2008 00:00 | 05/11/2008 23:59 | 98 | 06 - 19 | 035 | 132 |
| DSS 54 | AZ Track Refurbishment - NIB | 02/04/2008 00:00 | 05/11/2008 23:59 | 98 | 06 - 19 | 035 | 132 |
| DSS 54 | AZ Data Gear Replacement - NIB | 02/04/2008 00:00 | 05/11/2008 23:59 | 98 | 06 - 19 | 035 | 132 |
| DSS 54 | Q-Band Installation - NIB | 02/04/2008 00:00 | 05/11/2008 23:59 | 98 | 06 - 19 | 035 | 132 |
| DSS 54 | Depot Level Maintenance - NIB | 02/04/2008 00:00 | 05/11/2008 23:59 | 98 | 06 - 19 | 035 | 132 |
| DSS 15 | Life Extension | 02/18/2008 00:00 | 05/11/2008 23:59 | 84 | 08 - 19 | 049 | 132 |
| DSS 15 | Depot Level Maintenance - NIB | 02/18/2008 00:00 | 05/11/2008 23:59 | 84 | 08 - 19 | 049 | 132 |
| SPC 40 | A STA Power Grid | 06/02/2008 08:00 | 06/02/2008 12:00 | 0 | 23 - 22 | 154 | 153 |
| DSS 34 | AZ Track Repair | 06/17/2008 00:00 | 07/13/2008 23:59 | 27 | 25 - 28 | 169 | 195 |
| DSS 34 | Acq Aid Installation - NIB | 06/30/2008 00:00 | 07/13/2008 23:59 | 14 | 27 - 28 | 182 | 195 |
| DSS 34 | Ka-Band Phase 2 Install | 07/14/2008 00:00 | 09/29/2008 23:59 | 77 | 29 - 39 | 196 | 272 |
| DSS 34 | Depot Level Maintenance - NIB | 07/14/2008 00:00 | 09/29/2008 23:59 | 77 | 29 - 39 | 196 | 272 |
| DSS 14 | Grouting | 07/29/2008 00:00 | 08/03/2008 23:59 | 6 | 31 - 31 | 211 | 216 |
| SPC 60 | Commercial Power Installation - Proposed | 08/08/2008 18:00 | 08/11/2008 06:00 | 3 | 32 - 32 | 221 | 223 |
| SPC 60 | Commercial Power Installation - Proposed | 08/22/2008 18:00 | 08/25/2008 06:00 | 3 | 34 - 34 | 235 | 237 |
| | A STA Power Grid - Proposed | 08/25/2008 08:00 | 08/25/2008 16:00 | 0 | 34 - 34 | 237 | 237 |
| DSS 14 | Grouting - Proposed | 08/27/2008 00:00 | 08/29/2008 23:59 | 3 | 35 - 35 | 240 | 242 |
| SPC 60 | Commercial Power Installation - Proposed | 08/29/2008 18:00 | 09/01/2008 06:00 | 3 | 35 - 35 | 242 | 244 |
| DSS 55 | Paint Repair | 09/01/2008 00:00 | 10/12/2008 23:59 | 42 | 36 - 41 | 245 | 286 |
| DSS 55 | Depot Level Maintenance - NIB | 09/01/2008 00:00 | 10/12/2008 23:59 | 42 | 36 - 41 | 245 | 286 |
| SPC 10 | G86/G81 Electrical Maintenance | 09/01/2008 08:30 | 09/01/2008 22:30 | 0 | 36 - 36 | 245 | 245 |
| SPC 10 | G91 Electrical Maintenance | 09/15/2008 08:30 | 09/15/2008 22:30 | 0 | 38 - 38 | 259 | 259 |
| SPC 40 | A STA Power Grid - Proposed | 09/22/2008 08:00 | 09/22/2008 14:00 | 0 | 39 - 39 | 266 | 266 |
| | A STA Power Grid - Proposed | 09/29/2008 08:00 | 09/29/2008 14:00 | 0 | 40 - 40 | 273 | 273 |
| DSS 66 | Extended Downtime | 09/29/2008 16:00 | 12/31/2019 23:59 | 4111 | 40 - 53 | 273 | 365 |
| SPC 10 | Echo Tie Line Electrical Maintenance | 10/01/2008 08:30 | 10/01/2008 22:30 | 0 | 40 - 40 | 275 | 275 |
| DSS 54 | Acq Aid Installation | 10/13/2008 00:00 | 10/16/2008 23:59 | 4 | 42 - 42 | 287 | 290 |
| DSS 54 | Acq Aid Installation | 10/18/2008 00:00 | 10/21/2008 23:59 | 4 | 42 - 43 | 292 | 295 |
| | Apollo Tie-Line Electrical Maintenance | 10/20/2008 08:30 | 10/20/2008 22:30 | 0 | 43 - 43 | 294 | 294 |
| SPC 10 | SPC-10 Electrical Maintenance | 11/03/2008 08:30 | 11/03/2008 22:30 | 0 | 45 - 45 | 308 | 308 |
| DSS 14 | Grouting Proposed | 11/05/2008 00:00 | 11/07/2008 11:59 | 2 | 45 - 45 | 310 | 311 |



| 2009 | | | | | | | |
|--------|---|------------------|------------------|--------------------|---------|--------------|------------|
| Site | Description | Start End | | Duration (Days) | Weeks | Start DOY | End DOY |
| DSS 43 | Life Extension | 01/05/2009 00:00 | 03/29/2009 23:59 | 84 | 02 - 13 | 005 | 088 |
| DSS 43 | Depot Level Maintenance – NIB | 01/05/2009 00:00 | 03/29/2009 23:59 | 84 | 02 - 13 | 005 | 088 |
| DSS 43 | Life Extension Addition - Proposed | 03/30/2009 00:00 | 04/12/2009 23:59 | 14 | 14 - 15 | 089 | 102 |
| DSS 43 | Depot Level Maintenance Addition - Proposed | 03/30/2009 00:00 | 04/12/2009 23:59 | 14 | 14 - 15 | 089 | 102 |
| DSS 24 | Painting - Proposed | 03/30/2009 00:00 | 05/31/2009 23:59 | 63 | 14 - 22 | 089 | 151 |
| DSS 63 | Life Extension | 05/04/2009 00:00 | 08/02/2009 23:59 | 91 | 19 - 31 | 124 | 214 |
| DSS 24 | Ka-Band Phase 2 Install | 07/06/2009 00:00 | 09/21/2009 23:59 | 77 | 28 - 38 | 187 | 263 |
| DSS 24 | Depot Level Maintenance - NIB | 07/06/2009 00:00 | 09/21/2009 23:59 | 77 | 28 - 38 | 187 | 263 |
| DSS 46 | Extended Downtime | 08/03/2009 16:00 | 12/31/2019 23:59 | 3803 | 32 - 53 | 215 | 365 |
| DSS 14 | Life Extension | 10/03/2009 00:00 | 03/28/2010 23:59 | 177 | 40 - 12 | 276 | 087 |
| DSS 14 | Depot Level Maintenance - NIB | 10/03/2009 00:00 | 03/28/2010 23:59 | 177 | 40 - 12 | 276 | 087 |
| DSS 34 | AZ Track Replacement - Proposed | 10/05/2009 00:00 | 11/22/2009 23:59 | 48 | 41 - 47 | 278 | 325 |



| 2010 | | | | | | | |
|--------|---|------------------|------------------|---------------------|---------|--------------|------------|
| Site | Description | Start | End | Duration (Days) Wee | | Start DOY | End DOY |
| DSS 25 | Ka-Band Uplink Install | 03/29/2010 00:00 | 04/18/2010 23:59 | 21 | 13 - 15 | 088 | 108 |
| DSS 25 | Depot Level Maintenance - NIB | 03/29/2010 00:00 | 04/18/2010 23:59 | 21 | 13 - 15 | 088 | 108 |
| DSS 14 | Life Extension Addition - Proposed | 03/29/2010 00:00 | 05/02/2010 23:59 | 35 | 13 - 17 | 088 | 122 |
| DSS 14 | Depot Level Maintenance Addition - Proposed | 03/29/2010 00:00 | 05/02/2010 23:59 | 35 | 13 - 17 | 088 | 122 |
| DSS 15 | Pintle Bearing - Proposed | 05/31/2010 00:00 | 07/25/2010 23:59 | 56 | 22 - 29 | 151 | 206 |
| DSS 25 | Depot Level Maintenance - NIB | 08/02/2010 00:00 | 08/29/2010 23:59 | 28 | 31 - 34 | 214 | 241 |
| DSS 65 | Life Extension Elevation - Proposed | 08/02/2010 00:00 | 10/04/2010 23:59 | 63 | 31 - 39 | 214 | 276 |
| DSS 25 | Ka-Band Uplink Install | 08/02/2010 00:00 | 08/29/2010 23:59 | 28 | 31 - 34 | 214 | 241 |
| DSS 43 | 70m Power and HBA Upgrades - Proposed | 08/30/2010 00:00 | 11/28/2010 11:59 | 90 | 35 - 47 | 242 | 331 |
| DSS 54 | Ka-Band Phase 2 Install - Proposed | 10/04/2010 00:00 | 12/20/2010 23:59 | 77 | 40 - 50 | 277 | 353 |



| 2011 | | | | | | | | | | | |
|--------|---------------------------------------|------------------|------------------|----------|---------|-------|-----|--|--|--|--|
| Site | Description | Start | End | Duration | Weeks | Start | End | | | | |
| | | | | (Days) | | DOY | DOY | | | | |
| DSS 63 | 70m Power and HBA Upgrades - Proposed | 02/28/2011 00:00 | 05/29/2011 23:59 | 90 | 09 - 21 | 059 | 148 | | | | |

DSN Resource Implementation Planning Matrix by Subnet

| | | | S-E | Band | Х-В | and | Ka-Band | | Ka Phase 2 | |
|--|---------|--------|------|----------|------|-----|----------|----------|---------------|--|
| Complex | Station | Subnet | Down | Up | Down | Up | Down | Down Up | | |
| 10 | DSS-16 | 26M | 4 | N/A | N/A | N/A | N/A | N/A | N/A | |
| 40 | DSS-46 | 26M | ١ | > | N/A | N/A | N/A | N/A | N/A | |
| 60 | DSS-66 | 26M | ١ | > | N/A | N/A | N/A | N/A | N/A | |
| 10 | DSS-27 | 34HSB | > | > | N/A | N/A | N/A | N/A | N/A | |
| 10 | DSS-24 | 34B1 | ۲ | ٠ | * | • | N/A | N/A | 09/21/09 | |
| 40 | DSS-34 | 34B1 | ۲ | ۲ | • | • | • | N/A | 09/29/08 | |
| 60 | DSS-54 | 34B1 | ۶ | > | > | > | 04/15/08 | N/A | 09/27/10 | |
| 10 | DSS-25 | 34B2 | N/A | N/A | ~ | ~ | ~ | 08/01/10 | N/A | |
| 10 | DSS-26 | 34B2 | N/A | N/A | ~ | ~ | ~ | N/A | N/A | |
| 60 | DSS-55 | 34B2 | N/A | N/A | > | > | * | N/A | N/A | |
| 10 | DSS-15 | 34HEF | ` | N/A | ~ | ~ | N/A | N/A | N/A | |
| 40 | DSS-45 | 34HEF | ١ | 06/01/08 | • | ~ | N/A | N/A | N/A | |
| 60 | DSS-65 | 34HEF | ١ | 06/01/08 | > | • | N/A | N/A | N/A | |
| 10 | DSS-14 | 70M | × | * | ~ | ~ | N/A | N/A | N/A | |
| 40 | DSS-43 | 70M | ١ | > | * | • | N/A | N/A | N/A | |
| 60 | DSS-63 | 70M | > | > | > | > | N/A | N/A | N/A | |
| N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 02/07/08 | | | | | | | | | | |
| ✓ ✓ ✓ = Capability Recently Exists ✓ = Capability Exists | | | | | | | | | | |